

**POLYIMIDE OPTICAL PHASE DIFFERENCE THIN FILM FOR LIQUID CRYSTAL DISPLAY DEVICE, COLOR FILTER WITH OPTICAL PHASE DIFFERENCE THIN FILM AND LIQUID CRYSTAL DISPLAY DEVICE**

**Patent number:** JP2001290023

**Publication date:** 2001-10-19

**Inventor:** TSUKAMOTO JUN; YAMASHITA TETSUO

**Applicant:** TORAY IND INC

**Classification:**

**- international:** G02B5/30; G02B5/20; G02F1/1335; G02F1/13363;  
G02F1/1337

**- european:**

**Application number:** JP20000102095 20000404

**Priority number(s):**

**Also published as:**



JP2001290023 (A)

**Abstract of JP2001290023**

**PROBLEM TO BE SOLVED:** To provide a simple method for manufacturing an optical phase difference layer which does not necessitate aligning and stretching steps and forms the optical phase difference layer with a polymer film made by paste coating, the optical phase difference layer with excellent thermal stability and further a liquid crystal display device having the optical phase difference layer with a viewing angle and high contrast.

**SOLUTION:** The polyimide optical phase difference thin film for the liquid crystal display device has optically negative uniaxial anisotropy and has an optic axis vertical or nearly vertical to the thin film surface.

---

Data supplied from the **esp@cenet** database - Worldwide